ATTORNEY DOCKET NO. \_\_200309497-1

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	Sujata Banerjee et al.		Confirmation No.: TBD
Application No.:	TBD		Examiner: TBD
Filing Date:	Herewith		Group Art Unit: TBD
Title:	RECONFIGURING A MULTICAST TREE		
Commissioner fo PO Box 1450 Alexandria, VA		STATEMENT	
Sir:			
This Informat	ion Disclosure Statement is submitted:		
(Withi	r 37 CFR 1.97(b), or in three months of filing national application; or d g date of first office action on the merits; whicheve	ate of entry of nation r occurs last)	nal application; or before
();	r 37 CFR 1.97 (c) together with either a: Statement under 37 CFR 1.97(e), or a \$180.00 fee under 37 CFR 1.17(p), or After the CFR 1.97 (b) time period, but before final	action or notice of alle	owance, whichever occurs first)
( ) (	r 37 CFR 1.97 (d) together with a: Statement under 37 CFR 1.97(e)(1) or (2) a:\$180.00 fee set forth in 37 CFR 1.17(p Filed after final action, a notice of allowance, on or	).	e issue fee)
pendency of this	e to Deposit Account <b>08-2025</b> the sums application, please charge any fees re <b>5</b> pursuant to 37 CFR 1.25.		
any required cop applicant(s) belie	t(s) submit herewith Form PTO 1449 - In ies of patents, publications or other infor ve(s) may be material to the examination e in accordance with 37 CFR 1.56.	mation of which	applicant(s) are aware, which
and other foreig individuals(s) des attached sheet, foreign patent o	explanation of the relevance of foreign language information listed on PTO signated in 37 CFR 1.56 (c) most know or where a foreign language patent is ffice in a counterpart foreign application which indicates the degree of relevance foosed herewith.	Form 1449, as pledgeable about cited in a search an English lan	presently understood by the the content is given on the report or other action by a guage version of the search
It is requested th	at the information disclosed herein be ma	de of record in thi	is application.
deposited with the as first class mail i	at this correspondence is being tunited States Postal Service in an envelope addressed to: Patents, Alexandria, VA e of Deposit: OR	Sujata Banerje	
transmitted to the facsimile number_	at this paper is being Patent and Trademark Office	Ashok K. Man	nava nt for Applicant(s)
Number of pages:  Typed Name:			5,301
Classic		Date: N	farch 11, 2004

Rev 10/03 (IDSCERT)

Signature:\_\_\_

(

Telephone No.: (703) 628-1461

	TO-1449		1	ATTY. DOCKET NO. 200309497-1		APPLICATION NO.	CONFIRMA	111014 140
	PATENTS AND PU			APPLICANT			L	
APPLICA	STATE			Sujata Banerjee o	et al.			
(U	se several sheets if	necessary)		Herewith		GROUP		
EFERENCE	DESIGNATION	U.S. PA	ATENT	DOCUMENTS				
AMINER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME	ı	Pages, Columns Relevant Passages	s, Lines Wher or Figures Ap	e pear
1A	-							
1B								
1C								
1D	_							
1E							· · · · · · · · · · · · · · · · · · ·	
1F	-							
1G								
1H								
11								
1J								
1K						-		
	DOCUMENT	PUBLICATION	NAI	PATENT DOCUM	P	ages/Columns/Line	es Where	
1L	DOCUMENT NUMBER		NAI		P	ages/Columns/Line vant Passages/Figu	es Where ures Appear	Translati
1M		PUBLICATION	NAI	ME OF PATENTEE	P	ages/Columns/Line vant Passages/Figu	es Where ures Appear	Translati
1M 1N		PUBLICATION	NAI	ME OF PATENTEE	P	ages/Columns/Line vant Passages/Figu	es Where ures Appear	Translati
1M 1N 10		PUBLICATION	NAI	ME OF PATENTEE	P	ages/Columns/Line vant Passages/Figu	es Where ures Appear	Translati
1M 1N	NUMBER	PUBLICATION DATE	NAI	ME OF PATENTEE DR APPLICANT	PRele	vant Passages/Figu	es Where ures Appear	Translati
1M 1N 10	NUMBER	PUBLICATION	NAI	ME OF PATENTEE DR APPLICANT	PRele	vant Passages/Figu	es Where ures Appear	Translati
1M 1N 10	NUMBER OTHER REFE	PUBLICATION DATE	NAI	ME OF PATENTEE DR APPLICANT	Pertine	vant Passages/Figu	ures Appear	Check i Translati attache
1M 1N 1O 1P	OTHER REFE  S. Banerjee et a SIGCOMM.  S. Banerjee et a	PUBLICATION DATE  RENCES (including	ng Auth	ME OF PATENTEE DR APPLICANT  nor, Title, Date, I ayer Multicast", A	Pertine:	nt Pages, etc.)	ings of ACM	Translati
1M 1N 10 1P	OTHER REFE  S. Banerjee et a SIGCOMM.  S. Banerjee et a Applications", A	PUBLICATION DATE  RENCES (including al., "Scalable Application of the construction of	ng Authorities of an Effections	ME OF PATENTEE DR APPLICANT  nor, Title, Date, I ayer Multicast", A ficient Overlay Multicast of INFOCOM.	Pertine Lugust 2	nt Pages, etc.)	ings of ACM	Translati attache

Sheet 1 of 1

				ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMA	TION NO
	PTO-1449			200309497-1				TION NO
	F PATENTS AND PU ANT'S INFORMATION			APPLICANT		-	<u> </u>	
,	STATE		ļ	Sujata Banerjee e	et al.	GROUP		
(1	Jse several sheets if	necessary)		Herewith		3NOOF		
REFERENCE	DESIGNATION	U.S. P	ATENT	DOCUMENTS				
EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME	F	Pages, Column Relevant Passages	s, Lines Where or Figures App	ear
1A								
1B								<del></del>
1C								
1D						****		
1E							···	
1F				<del></del>				
1G								<del>_</del>
1H								
11								
1J								<del></del>
1K		<del></del>			_			<del></del>
	l l							•
		FO	REIGN	PATENT DOCUM	ENTS			
	DOCUMENT NUMBER	PUBLICATION DATE		ME OF PATENTEE OR APPLICANT		ages/Columns/Line ant Passages/Figu		Check if Translatio attached
1L								
1M								
1N								
10								
1P			. —					
	OTHER REFE	RENCES (includi	ng Aut	hor, Title, Date, F	Pertiner	nt Pages, etc.)		•
10	M. Castro et al. Infrastructure",	, "Scribe: A Large October 2002, IE	-Scale a EE JSA	and Decentralized A C, 20(8).	Applicati	on-Level Multica	ast	
1R	Y. Chawathe, " Multimedia Sys	Scattercast: An A tems Journal.	daptive	Broadcast Distribut	tion Fra	mew ork", 2002,	ACM	
18	Y. Chu et al., ".	A Case for End Sy	stem M	ulticast", October 2	2002, IE	EE JSAC, 20(8)	).	
- CVANDUED		···-						_
EXAMINER				DATE CONSIDER	KED			

Rev 10/03 (PTO1449)

Sheet 1 of 1

	TO-1449 PATENTS AND PU	BLICATIONS FOR		200309497-1		APPLICATION NO.	CONFIRMA	TION NO
	NT'S INFORMATIO	N DISCLOSURE		APPLICANT	at al			
(U:	se several sheets if			Sujata Banerjee e FILING DATE Herewith	7	GROUP		
	DESIGNATION			DOCUMENTS				
EXAMINER	DOCUMENT	PUBLICATION	71511	DOCOME 13	· · · · · · · · · · · · · · · · · · ·	Pages, Column	s Lines When	
INITIAL	NUMBER	DATE	_	NAME	F	elevant Passages	or Figures Ap	pear ——–
1A		44						<del></del>
1B				4,0				
1C								
1D								
1E								
1F								
1G								
1H								
11								<del></del>
1J				•				<del></del>
1K								·
	DOCUMENT	PUBLICATION	NA	PATENT DOCUM  ME OF PATENTEE	Pa	ages/Columns/Line		Check if
	NUMBER	DATE		OR APPLICANT	Relev	ant Passages/Figu	res Appear	attached
1L								
1M							<u>.</u>	
1N								
10				181	<u> </u>			
1P								
	OTHER REFE	RENCES (includi	ng Autl	hor, Title, Date, F	Pertiner	nt Pages, etc.)		
1Q	P. Francis, "Yoi	d: Your Own Inte	rnet Dist	ribution", March 2	001.		-	
1R	X. Fu et al., "C. Proceedings of	ANS: Composable USITS.	e, Adapti	ive Network Service	es Infra	structure", Marc	h 2001, In	
18	S. D. Gribble et March 2001, Co	al., "The Ninja Ai omputer Networks	rchitectus, 35(4).	ire for Robust Inter	net-Sca	le Systems and	Services",	
EXAMINER	<u> </u>			DATE CONSIDER			••	

Rev 10/03 (PTO1449)

	TO 4440		ATTY. DO	OCKET NO.	APPLICATION	NO. CONFIRMA	ATION N
FORM F	10-1449		200309	-			
⊔ST OF	PATENTS AND PU	BLICATIONS FOR	APPLICAL				
APPLIC	ANT'S INFORMATION STATE		1	¹¹ 3anerjee et	al		
			FILING DA	ATE	GROUP		
(U	lse several sheets if	necessary)	Herewit	h			
EFERENCE	DESIGNATION	U.S. P	ATENT DOCUM	MENTS			
AMINER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NA NA	ME	Pages, Co Relevant Pass	olumns, Lines When	e pear
1A							
1B							
1C						·-·	
1D		***************************************					
1E							
1F							
1G							
1H							
11							
1J							
1K	DOCUMENT	PUBLICATION	NAME OF PA	TENTEE	Pages/Columns	s/Lines Where	Transla
1L 1M	DOCUMENT NUMBER			TENTEE	<del></del>	s/Lines Where s/Figures Appear	Transla
1L 1M 1N		PUBLICATION	NAME OF PA	TENTEE	Pages/Columns	s/Figures Appear	Transla
1L 1M 1N 10		PUBLICATION	NAME OF PA	TENTEE	Pages/Columns	s/Figures Appear	Transla
1L 1M 1N	NUMBER	PUBLICATION	NAME OF PA OR APPLI	TENTEE	Pages/Columns Relevant Passage	s/Figures Appear	Check Transla attach
1L 1M 1N 10	OTHER REFE	PUBLICATION DATE  RENCES (including li "Overcast: Relia	NAME OF PA OR APPLIO	CANT  e, Date, Pe	Pages/Columns Relevant Passage	etc.)	Transla attach
1L 1M 1N 1O 1P	OTHER REFE  J. Jannotti et a Proceedings of	PUBLICATION DATE  RENCES (including li "Overcast: Relia	NAME OF PA OR APPLIC	e, Date, Pe	Pages/Columns Relevant Passage  ertinent Pages, e	etc.) October 2002, Ir	Transla
1L 1M 1N 10 1P	OTHER REFE  J. Jannotti et a Proceedings of  J. Jin et al., "C	PUBLICATION DATE  RENCES (including al., "Overcast: Reliable USENIX OSDI.  On Construction of al., "Application-Later and al., "Application-Later al.,	NAME OF PA OR APPLIC	e, Date, Pe	Pages/Columns Relevant Passage  ertinent Pages, er  rerlay Network", 0  ay 2003, In Proce	etc.) October 2002, Ir	Transla attach

	PTO-1449		200309497		APPLICATION NO.	CONFIRMATION	I N
	PATENTS AND PU		APPLICANT			L	
APPLICA	ANT'S INFORMATIC STATE		Sujata Bane	rjee et al.			
(U	Ise several sheets if	necessary)	FILING DATE  Herewith		GROUP		
REFERENCE	DESIGNATION	U.S. PA	ATENT DOCUMEN	rs			
XAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	F	Pages, Columns Relevant Passages of		
1A							
1B		<del> </del>					
1C							
1D		·				P.,	
1E							
1F							
1G		P				· · · · · · · · · · · · · · · · · · ·	
1H					<del></del>		
11		-			<del></del>	· · · · · · · · · · · · · · · · · · ·	
1J							
1K							
1 1	NUMBER I	DATE		I Dala	test Dossess/Figur	Tran	310(1)
1L			OR APPLICANT	Rele	vant Passages/Figu	rae Annaar I	
1M	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		OR APPLICANT	Rele	/ant Passages/Figu	rae Annaar I	
1M	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		OR APPLICANT	Rele	vant Passages/Figu	rae Annaar I	
1M 1N 10			OR APPLICANT	Rele	vant Passages/Figu	rae Annaar I	
1M						rae Annaar I	
1M 1N 10			ng Author, Title, Da			rae Annaar I	
1M 1N 10	OTHER REFE	RENCES (includin	g Author, Title, Da	ite, Pertiner	nt Pages, etc.)	res Appear atta	
1M 1N 10 1P	OTHER REFE  T. Ng et al., "Pr 2002, In Procee  V. Padmanabha	RENCES (including redicting Internet Nedings of IEEE INFO	etwork Distance with	nte, Pertiner	nt Pages, etc.) s-Based Approac	res Appear atta	
1M 1N 10 1P	OTHER REFE  T. Ng et al., "Pr 2002, In Proces  V. Padmanabha May 2002, In P	RENCES (including redicting Internet Nedings of IEEE INFO	etwork Distance with	nte, Pertiner h Coordinate	nt Pages, etc.) s-Based Approac	thes", June	

					ATTY. DOCKET NO.		APPLICATION N	O. CONFIRM	ATION
FC	ORM P	TO-1449		- 1	0000000407.4			001111111111	
LIS	ST OF	PATENTS AND PU	IBI ICATIONS FOR		200309497-1				
		ANT'S INFORMATIO	ON DISCLOSURE		APPLICANT	-4 -1			
		STATE	MENT		Sujata Banerjee e	et al.	GROUP		
	(U	se several sheets if	necessary)		Herewith	-			
EFERE	NCE	DESIGNATION	U.S. P	ATENT	DOCUMENTS				
AMINER NITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Colun Relevant Passage	nns, Lines Whe	re
	1A		27.1.2					- Tigules A	
	1B	· · · · · · · · · · · · · · · · · · ·		<del> </del>					
	1C		-					<del></del> .	<del></del>
	1D		•						
	1E			_					
	1F		*						
	1G								
	1H							- · · · <u>-</u>	
	11						· · · · · · · · · · · · · · · · · · ·		`
	1J								
ł	1K				· -				
		DOCUMENT			PATENT DOCUM	1	Proces/Columns (I)		Check
	1L	DOCUMENT NUMBER	PUBLICATION DATE	NA	PATENT DOCUMI ME OF PATENTEE OR APPLICANT	F	Pages/Columns/Li vant Passages/Fi	nes Where gures Appear	Check Transla attach
			PUBLICATION	NA	ME OF PATENTEE	F	Pages/Columns/Li evant Passages/Fi	nes Where igures Appear	Transla
	1L		PUBLICATION	NA	ME OF PATENTEE	F	Pages/Columns/Li evant Passages/Fi	nes Where igures Appear	Transla
	1L 1M		PUBLICATION	NA	ME OF PATENTEE	F	Pages/Columns/Li evant Passages/Fi	nes Where gures Appear	Transla
	1L 1M		PUBLICATION	NA	ME OF PATENTEE	F	Pages/Columns/Li evant Passages/Fi	nes Where igures Appear	Transla
	1L 1M 1N	NUMBER	PUBLICATION DATE	NA	ME OF PATENTEE	FRele	evant Passages/Fi	gures Appear	Transla
	1L 1M 1N	NUMBER OTHER REFE	PUBLICATION DATE  RENCES (including et al., "A Scalable	ng Aut	ME OF PATENTEE OR APPLICANT	Pertine	nt Pages, etc.	gures Appear	Transla attach
	1L 1M 1N 1O	OTHER REFE  S. Ratnasamy e ACM SIGCOMN  S. Ratnasamy e	PUBLICATION DATE  RENCES (including at al., "A Scalable of the	ng Aut	ME OF PATENTEE OR APPLICANT  hor, Title, Date, P	Pertine	nt Pages, etc.	gures Appear  Proceedings	Transla attach
	1L 1M 1N 1O 1P	OTHER REFE  S. Ratnasamy e ACM SIGCOMM  S. Ratnasamy e 2002, In Procee  S. Ratnasamy e	PUBLICATION DATE  RENCES (including at al., "A Scalable of al., "Topological edings of IEEE INFO	ng Aut Content	ME OF PATENTEE OR APPLICANT  hor, Title, Date, P t Addressable Netwo	Pertine ork", A	nt Pages, etc. August 2001, Ir	n Proceedings	Transla attach

. 0.4	TO-1449		ľ	ATTY. DOCKET NO. 200309497-1		APPLICATION NO.	CONFIRMA	TION N
	PATENTS AND PU		-	APPLICANT			<u> </u>	
APPLICA	ANT'S INFORMATIO STATE			Sujata Banerjee o	et al.			
(υ	se several sheets if	necessary)		Herewith		GROUP		
EFERENCE	DESIGNATION	U.S. PA	ATENT	DOCUMENTS				
AMINER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME	F	Pages, Columns Relevant Passages	s, Lines Where	e pear
1A	٠,,:							
1B							· · · · · · · · · · · · · · · · · · ·	
1C								
1D		r the s					-	
1E							·	
1F	1							
1G								
1H			1					
11		<u> </u>						
1J								
1K						·		
	DOCUMENT	FOR PUBLICATION		PATENT DOCUM  ME OF PATENTEE		ages/Columns/Line	es Where	
1L	DOCUMENT NUMBER		NA		P	ages/Columns/Line vant Passages/Figu		Translat
1L 1M		PUBLICATION	NA	ME OF PATENTEE	P			Translat
		PUBLICATION	NA	ME OF PATENTEE	P			Translat
1M		PUBLICATION	NA	ME OF PATENTEE	P			Translat
1M		PUBLICATION	NA	ME OF PATENTEE	P			Translat
1M 1N 10	NUMBER	PUBLICATION DATE	NA <sub>(</sub>	ME OF PATENTEE	PRele	vant Passages/Figu		Check Translati attache
1M 1N 10	OTHER REFE	PUBLICATION DATE  RENCES (including al., "Pastry: Scalation scalation statement of the scalation statement of the scalation scalation statement of the scalation scalation statement of the scalation scalatio	na Autl	ME OF PATENTEE OR APPLICANT	Pertine:	nt Pages, etc.)	ures Appear	Translat
1M 1N 1O 1P	OTHER REFE  A. Rowstron et Peer-to-Peer Sy  S. Roy et al., "A	PUBLICATION DATE  RENCES (including al., "Pastry: Scalal stems", November	ng Autible, Dis 2001,	ME OF PATENTEE OR APPLICANT  nor, Title, Date, F stributed Object Loc In Proceedings of I	Pertine:	nt Pages, etc.) Ind Routing for L	arge-Scale	Translat
1M 1N 10 1P	OTHER REFE  A. Rowstron et Peer-to-Peer Sy  S. Roy et al., "/2002, In Procee	PUBLICATION DATE  RENCES (including al., "Pastry: Scalar stems", November Application Level Hedings of ACM NOS	ng Autible, Dis 2001,	ME OF PATENTEE OR APPLICANT  hor, Title, Date, F  tributed Object Loc In Proceedings of I	Pertine:  cation a IFIP/AC	nt Pages, etc.) and Routing for L M Middleware.	arge-Scale	Translat

							Sileet 1 Oi	1	
FC	ORM P	TO-1449			ATTY. DOCKET NO. 200309497-1		APPLICATION NO. C	ONFIRMATION	1 N
			JBLICATIONS FOR		APPLICANT		<u> </u>		
AI	PPLICA	NT'S INFORMATI STATE			Sujata Banerjee e	et al.			
	(U	se several sheets i	f necessary)		FILING DATE Herewith		GROUP		
DECEDE:		DESIGNATION		ATENI	F DOCUMENTS				
				A 1 L 1				·	
XAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns, L Relevant Passages or I	ines Where. Figures Appear	
	1A								
	1B								
	1C					_			
	1D								
	1E						•		
	1F				·				
	1G				···				
	1H								
	11								
	1J								
	1K						· · · · · · · · · · · · · · · · · · ·		
		DOCUMENT NUMBER	PUBLICATION DATE	N/	AME OF PATENTEE OR APPLICANT	Re	Pages/Columns/Lines V levant Passages/Figures	Vhere Tran	eck islati ache
	1L								
	1M								
	1N								
	10								
	1P								
		OTHER REFE	RENCES (includi	ng Aut	thor, Title, Date, P	ertin	ent Pages, etc.)		_
	1Q	D. Xu et al., "I Proceedings of	Finding Service Pat SPIE/ACM MMCN	hs in a	Media Service Prox	y Net	work", January 2002	2, In	
	1R	Z. Xu et al., "F 2002, Technic	Receiver Initiated J al Report HPL-200	ust-in-T 2-314R	ime Adaptation for 11, HP Laboratories.	Rich I	Media Distribution", N	November	
	15	Z. Xu et al., "E Proceedings of	Building Topology-A	\ware (	Overlays Using Glob	al Sof	t-State", May 2003,	In	
EXAMI	NER	<u> </u>	<del></del>	<del></del>	DATE CONSIDER	RED			
EXAMIN	NER	Proceedings of	TEEE ICDCS.		DATE CONSIDER	RED			

	TO-1449			ATTY. DOCKET NO.		APPLICATION NO.	CONFIRMA	TION N
LIST OF	PATENTS AND PU	BI ICATIONS FOR		200309497-1			l	-
	ANT'S INFORMATIO	ON DISCLOSURE		APPLICANT	at al			
	STATE			Sujata Banerjee 6 FILING DATE	zt ai.	GROUP		
(U	se several sheets if	necessary)		Herewith				
EFERENCE	DESIGNATION	U.S. P.	ATENT	DOCUMENTS				
AMINER NITIAL	DOCUMENT NUMBER	PUBLICATION DATE		NAME		Pages, Columns Relevant Passages	s, Lines Wher or Figures Ap	e pear
1A								
1B				·				
1C			•					
1D								
1E								
1F		-					-	
1G				<u>-</u>				
1H								
11				· · · · ·			1	
1J							·	<u> </u>
1K								
	DOCUMENT	PUBLICATION		PATENT DOCUM	F	Pages/Columns/Line	s Where	
1L	DOCUMENT NUMBER				F	ages/Columns/Line vant Passages/Figu	s Where ires Appear	Translat
1M		PUBLICATION		ME OF PATENTEE	F	ages/Columns/Line vant Passages/Figu	s Where ires Appear	Translat
1M		PUBLICATION		ME OF PATENTEE	F	ages/Columns/Line vant Passages/Figu	s Where ires Appear	Translat
1M 1N 10		PUBLICATION		ME OF PATENTEE	F	ages/Columns/Line vant Passages/Figu	s Where ires Appear	Translat
1M		PUBLICATION		ME OF PATENTEE	F	ages/Columns/Line vant Passages/Figu	s Where ires Appear	Translat
1M 1N 10	NUMBER	PUBLICATION DATE	NA	ME OF PATENTEE	FRele	vant Passages/Figu	s Where ires Appear	Check Translat attache
1M 1N 10	OTHER REFE	PUBLICATION DATE	ng Aut	ME OF PATENTEE OR APPLICANT	FRele	nt Pages, etc.)	ires Appear	Translat
1M 1N 1O 1P	OTHER REFE  B. Zhang et al., In Proceedings	PUBLICATION DATE  ERENCES (including "Host Multicast:	ng Aut	ME OF PATENTEE OR APPLICANT	FRele	nt Pages, etc.)	ires Appear	Transla attach
1M 1N 10 1P	OTHER REFE  B. Zhang et al., In Proceedings	PUBLICATION DATE  ERENCES (including "Host Multicast:	ng Aut	ME OF PATENTEE OR APPLICANT	FRele	nt Pages, etc.)	ires Appear	Transla